Unit 4

A co	ompany has an extranet.
Ехр	lain what is meant by an extranet.
Ext	tranet is a network controlled by a company.
It is	s restricted/private network
It a	llows access for partners/vendors/suppliers
It a	llows access for authorised customers
	[3]
A h	eadteacher is planning to hold a video-conference with headteachers from other schools.
	e headteachers already have basic internet connected desktop computer systems including a nitor, keyboard and mouse.
(a)	Identify three pieces of additional hardware they need in order to participate in a video-conference.
	1 Microphone
	2 Video camera/webcam
	Speakers/headphones
	[3]

	(b)	A technician is setting up the hardware for the video-conference.				
		State three tasks the technician would need to do to set up the hardware for the video-conference.				
		You can assume that the hardware required has already been purchased.				
		1 Ensure the video camera/webcam, microphone, speakers/headphones are switched on				
		2 Ensure the hardware devices are connected				
		Carry out tests on the microphone, video camera/webcam and speakers/ headphones				
		Adjust the video camera/webcam so the headteacher can be seen Check the volume levels Check internet connectivity				
3.		pare the similarities and differences between Bluetooth and wi-fi.				
	Bot Bot	n use wireless communications in use radio frequencies for communication in allow several devices to be connected in use security when sending data				
	wi-f wi-f wi-f Blue wi-f wi-f	erences has a faster data transfer rate has a greater range of transmission uses key matching encryption etooth uses WEP and WPA security together can be broadcast connects more devices etooth has a lower frequency than wi-fi				

De:	e data gets stored on remote servers accessed by the cloud within data centres.				
The server is leased/rented on a monthly basis to the user.					
	e data is managed by a third-party cloud provider.				
	oud service providers manage and maintain data transferred to the cloud				
	ger is a 16-year-old student who is setting up a password for his computer. He has four ide the passwords he may use.				
for					
for	the passwords he may use.				
for	the passwords he may use. Select the most appropriate password from the list and give reasons for your choice. Roger2008				
for	Select the most appropriate password from the list and give reasons for your choice. Roger2008 R08123				
for	Select the most appropriate password from the list and give reasons for your choice. Roger2008 R08123 RogerZpa55w0rd				
for	Select the most appropriate password from the list and give reasons for your choice. Roger2008 R08123 RogerZpa55w0rd 6IRrg08&				
for	Select the most appropriate password from the list and give reasons for your choice. Roger2008 R08123 RogerZpa55w0rd				
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for	Select the most appropriate password from the list and give reasons for your choice. Roger2008 R08123 RogerZpa55w0rd 6IRrg08& Password 6IRrg08&				
for	Select the most appropriate password from the list and give reasons for your choice. Roger2008 R08123 RogerZpa55w0rd 6IRrg08& Password 6IRrg08& Reasons it has long password.				

	Changing password regularly and also use of anti-spyware. Be aware of shoulder surfing.	
Man hom	y organisations use audio-conferencing or video-conferencing as some employees work e.	c from
	uss the advantages and disadvantages of using audio-conferencing rather than o-conferencing.	
Adv	antages	
Sim	pler interface for employees.	
	s equipment is required therefore it is cheaper.	
Mor	e flexibility so they can dress casually for the employee as they do no need to be in fron	nt of a car
	ssues with lip .	-
	do other tasks as there is no camera	
Disa	dvantages	-
Can	not see the body language of the people in the conference.	
Can	not tell if the employees are paying attention.	
	er features than video-conferencing	
Few	or reaction than the comments.	
	s personal as you cannot see the person.	

/.	The	medical centre follows a data protection act, so the patient's data is protected by law	
		e four principles of a typical data protection act.	
	1 .D.	ata is processed lawfully/fairly.	
	 2	ata processing must be transparent.	
		ersonal data must be accurate.	
	4 P	ersonal data must be processed in a secure manner.	
			[4]
8.	(a)	Explain what is meant by electronic conferencing.	
		This is a communication.	
		A structured discussion between two or more people.	
		This is carried out virtually over the internet.	
		Involves video, web and audio	
			[2]

(b)		State, giving a reason for your choice, the hardware required to set up an electronic conference. Computer/smartphone to connect the peripherals used in the conference				
		Camera/webcam to capture moving images of the conference/participants	-			
		Monitors to view the participants/contents/web page of the conference				
		Router to connect to the internet				
•			[4]			
9.	A st	udent is able to access a secure area of the school's website using zero login.				
	(a)	Explain what is meant by zero login.				
		It is a security method to protect the resources/data that the user can access It is an authentication method				
			[2]			
	(b)	Biometrics could be used as another method of accessing the secure area.				
		State three examples of biometric methods.				
		1 Voice recognition				
		2 Fingerprint scanning				
		Facial recognition				
			[3]			

10.			
	(a)	Discuss the advantages and disadvantages of using web-conferencing rather that video-conferencing for meetings.	an
		Advantages	
		Reduced cost as less extra hardware/ dedicated software is needed	
		Far simpler interface for employees	
		Fewer issues with lip sync/video lag/buffering	
		Can be used on more devices	
		Disadvantages	
		Requires internet connection and it must be stable/reliable	
		Cannot see the body language of the people in the conference	
		Cannot tell if the employees are paying attention	
			[6]
	(b)	An organisation has decided to use video-conferencing for its meetings.	
		State the hardware and software required to set up the video-conference.	
		Hardware	
		Camera -Monitor	
		SpeakersRouter	
		Software Software/hardware drivers Video conferencing softwARE	
			[4]

11.		